

ABSTRACT

An in-vehicle device data communicates with Internet based data processing resources for the purpose of transacting e-mail, e-commerce, and e-business. The in-vehicle device and the Internet based data processing resources can effectuate a wide variety of e-mail, e-commerce, and e-business including accessing auto part databases, warranty, customer, and other remote databases. In addition, e-mail, e-commerce, and e-business transactions can include vehicle security and vehicle service management, data communicating Internet based radio, audio, MP3, MPEG, video, and other types of data. Furthermore, e-mail, e-commerce, and e-business transactions can include interactive advertising, promotional offers, coupons, and supporting other remote data communications.

The in-vehicle device can also include functionality for remote monitoring of vehicle performance, data communicating and accessing remote Internet based content and data, and effectuating adjustments and control of vehicle operation. Remote monitoring and control of vehicle operation can be by way of an Internet based data processing resource and can include engine control system programming and setting adjustment, vehicle monitoring, and transmission of vehicle telemetry and metric data. Vehicle telemetry and metric data can include global positioning system (GPS) data, vehicle operational data, engine performance data, and other vehicle data.

The in-vehicle device can also wirelessly data communicate with a communication interface device (COM device) or an Internet appliance. Such COM devices or Internet appliances can data communicate wirelessly with an in-vehicle device and simultaneously data communicate in a wired or wireless mode of operation to Internet based data processing resources, and to other data processing resources.